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Sir:

Transmitted herewith for filing is the patent application of

Inventors: JAY S. WALKER, ET AL.

For: SYSTEM AND METHOD FOR PERFORMING LOTTERY TICKET TRANSACTIONS
UTILIZING POINT-OF-SALE TERMINALS

Enclosed are:

- Specification and Claims.
- Oath or Declaration.
- Transmittal Letter Under 37 C.F.R. § 1.53 and M.P.E.P. § 601.01.
- Twelve (12) sheets of formal drawing.
- An assignment of the invention to Walker Asset Management,
Limited Partnership
- Certified copies of _____ priority application(s).
- Associate power of attorney.

The fee has been calculated as shown below:

CLAIMS AS FILED				
FOR	NUMBER FILED	NUMBER EXTRA	RATE	BASIC FEE \$385/\$770
TOTAL CLAIMS	48-20	28	x \$11 \$22	\$308.00
INDEP. CLAIMS	17-3	14	x \$40 \$80	\$560.00
Fee for Multiple Dependent claims \$130°/\$260				
TOTAL FILING FEE -----				\$1253.00

°Verified Statement claiming small entity status is enclosed.

Charge \$_____ to Deposit Account No. 06-1205. A duplicate copy of the paper is enclosed.

The Assistant Commissioner is hereby authorized to charge any fees under 37 C.F.R. 1.16 or 1.17 which may be required during the entire pendency of this application, or to credit any overpayment, to Deposit Account No. 06-1205. A duplicate copy of this paper is enclosed.

A check in the amount of \$1253.00 to cover the filing fee is enclosed.

A check in the amount of \$40.00 to cover the recordal fee is enclosed.

Applicants' undersigned attorney may be reached in our New York office by telephone at (212) 758-2400. All correspondence should continue to be directed to our below listed address.



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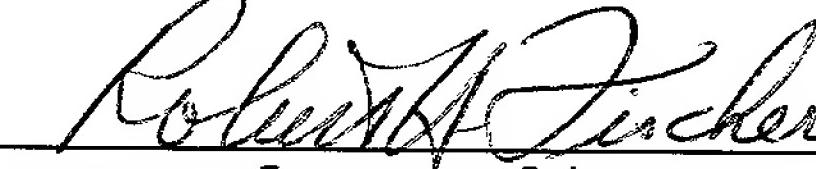
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- 1 -

SYSTEM AND METHOD FOR PERFORMING LOTTERY TICKET
TRANSACTIONS UTILIZING POINT-OF-SALE TERMINALS

BACKGROUND OF THE INVENTION

This invention relates to a lottery ticket transaction system. More particularly, the present invention relates to a system and a method for selling lottery tickets using point-of-sale ("POS") terminals that generate sales receipts containing both merchandise sales information and lottery ticket information.

Many states in the United States, as well as some foreign countries, have government-conducted lottery systems. Government-conducted lotteries offer the public a desirable product (usually the chance to win a large cash prize), and have the benefit of increasing governmental revenues without burdening the public with additional or increased taxes. In many instances, the revenue generated from a governmental lottery is dedicated to a particular purpose or goal, such as improving the education system or reducing property taxes.

In a typical government-conducted lottery system, a central lottery computer is used to communicate with dedicated lottery terminals. A player selects numbers on a lottery playslip, and the lottery terminal operator inserts the

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lottery playslip into a reader at the lottery terminal, which optically reads the lottery playslip using a known mark-sense process. The dedicated lottery terminal then communicates the player's selected numbers to a central lottery computer which in turn stores them. After the lottery numbers have been stored, the dedicated lottery terminal, under the control of the central lottery computer, prints and issues the lottery ticket.

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One popular lottery game, known as "lotto," typically requires the player to choose six numbers from one to forty-two. The selected group of numbers are then compared to the winning lottery numbers, which have been randomly selected from the larger pool of numbers, from one to forty-two, at some specified time and date after purchase of the lotto ticket, usually once or twice each week. To win a prize, the lotto ticket numbers must be equal to all or some of the winning lottery numbers.

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While players may select their own lottery numbers, most lotto games provide the option of having the central lottery computer system select random "quick-pick" lottery numbers instead. This saves the purchaser the time and inconvenience of picking his or her own numbers. These automatic lottery number generation systems are usually known as "quick-pick" systems.

A variety of games may be played in a typical lottery. In conventional lottery games, a player purchases a lottery ticket. Inscribed on that lottery ticket are one or more lottery numbers and a serial number. The serial number functions as a simple method of fraud prevention, because it uniquely identifies each lottery ticket sold. The lottery number also allows both the player and the lottery system to identify a winner; specifically, the lottery numbers are compared by the player to a "winning number list", to determine if the player has won a prize.

There are also instant lottery games in which the outcome is determined prior to the sale of the lottery ticket. By uncovering concealed indicia inscribed on the lottery ticket, the player can determine if the lottery ticket is a winner - immediately after purchase.

Some foreign countries (e.g. Germany) allow a lottery player to purchase fractional lottery tickets. However, these lottery systems only allow the player to purchase fixed fractions of certain high-priced lottery tickets (e.g., a half, or quarter share of a lottery ticket). In these instances, if the lottery ticket is a winner, the purchaser will only receive one-half or one-quarter of the full prize amount.

The majority of lottery tickets are sold by grocery, liquor and convenience stores. These retail stores typically place the dedicated lottery terminal away from one or more POS terminals used for merchandise transactions. This physical separation is to ensure that the merchandise transaction line is not slowed-down or blocked by customers wishing to make lottery ticket purchases. In addition, since the lottery terminals have a separate and distinct accounting system, there is no need to co-locate the POS terminals and dedicated lottery terminals.

However, some customers may consider it annoying to make two separate transactions, i.e., merchandise and lottery tickets, on two different terminals within the same store. Separate terminals may also force the customers to wait in two separate lines, or may slow down the overall merchandise check-out procedure while a single store clerk performs two separate transactions on two terminals. Besides annoying the merchandise-only customers, these inconveniences also reduce the impulse purchasing of lottery tickets, which in turn leads to loss of revenue for the government and the store.

There are other disadvantages with using two separate and distinct terminals for merchandise transactions and lottery ticket transactions. The government usually bears the

costs of purchasing, leasing, installing and maintaining the dedicated lottery terminals. There are also the considerable costs of resupplying the lottery ticket paper and ink for each dedicated lottery terminal. Moreover,
5 many retail stores with multiple checkout lines and registers, such as supermarkets, do not have the resources to support dedicated lottery terminals at every check-out register. In addition, a dedicated lottery terminal uses counter space that could otherwise be devoted to revenue-producing merchandise displays. It is also costly to train store personnel in the operation of two distinct types of transaction terminals. These factors reduce the availability of lottery tickets to consumers, and thus reduce governmental revenue, by limiting the number of
10 locations that sell lottery tickets.
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After many years of steadily increasing profits, many state-run lotteries have seen a downturn in profits. Improving the ease of purchasing lottery tickets and increasing their availability has become a primary concern
20 as many states are modernizing their lottery systems. The current lottery system does not allow for the sale of fractional value lottery tickets at retail point of sale terminals. There is a significant loss of revenue from this lost opportunity to buy fractional value lottery tickets. Accordingly, there is a need for a system that
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solves the above described problems.

SUMMARY OF THE INVENTION

5 The present invention solves the foregoing problems by providing a system and a method for performing integrated lottery ticket and merchandise transactions. The system and method utilizes POS terminals that generate a single sales receipt containing all lottery ticket and merchandise information.

10 In accordance with one embodiment of the present invention, each POS terminal is connected to a POS controller, which in turn is adapted to communicate with a lottery data processing system. The POS terminal is designed to perform lottery transactions in addition to merchandise transactions. Accordingly, during the course of purchasing merchandise, the buyer can also request the purchase of a lottery ticket. The POS terminal operator thereupon actuates a pre-programmed key or other coded input on the POS terminal, which causes the terminal to transmit a lottery ticket request to the POS controller. The controller transmits this request to the lottery data processing system, which carries out the lottery transaction. The lottery data processing system then transmits lottery ticket information back to the POS

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terminal. The POS terminal completes the transaction by printing out a single sales receipt containing both lottery ticket information and information concerning the merchandise being purchased.

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The present invention advantageously eliminates the need for a separate lottery ticket system and terminal which in turn eliminates the added costs of the check-out counter space associated therewith. This provides the lottery ticket purchaser with a convenient and efficient means of buying lottery tickets while making non-lottery ticket purchases at the POS terminal. The present invention also advantageously provides the consumer greater access to lottery tickets by increasing the number of locations capable of selling lottery tickets.

In accordance with another embodiment of the present invention, lottery players may purchase fractional lottery tickets at the POS terminal. Any fraction or percentage of a full lottery ticket can be requested by the customer (i.e. one to ninety-nine percent). The customer is not limited to any preset or fixed fractions. This is advantageous for customers who are making other merchandise transactions and who do not wish to receive change (coins totalling less than a dollar). Instead of receiving a handful of change, the customer can request his change be

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used for purchasing a fractional lottery ticket. In this embodiment, the lottery player would only receive a fraction of a winning prize based on the fraction of the lottery ticket purchased.

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In accordance with another embodiment of the present invention, lottery players may telephone the lottery data processing system via an interactive voice response unit (IVRU) to verify the validity of the lottery ticket information. The player inputs to the IVRU via the telephone keypad the encrypted authentication code printed on the sales receipt, and this code is decrypted by the lottery data processing system and used to verify the lottery ticket.

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BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is a block diagram of a system in accordance with the present invention.

FIG. 2 is a block diagram of the POS controller of FIG. 1.

FIG. 3 is a block diagram of the POS terminal of FIG 1.

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FIG. 4 is a block diagram of the lottery data processing

system.

FIG. 5 is a table depicting the local lottery ticket database within the POS controller of FIG 3.

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FIG. 6 is a table depicting the lottery ticket database within the lottery data processing system of FIG 4.

10 FIG. 7 is a table depicting the POS controller database within the lottery data processing system of FIG 4.

15 FIG. 8 is a flow chart depicting the lottery transaction at the POS terminal.

20 FIG. 9 is an example of a store sales receipt in accordance with the preferred embodiment of the present invention.

FIG. 10 is a flow chart of the operation of the POS controller.

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FIG. 11 is a flow chart of the operation of the lottery data processing system.

FIG. 12 is a flow chart depicting the telephone authentication process.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

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The present invention is directed to a system for performing lottery ticket transactions at retail POS terminals without the customer having to wait for two transaction receipts, or go to another check-out terminal to make other non-lottery ticket purchases. In about the same amount of time it takes to ring up bread or milk at a POS terminal, the customer can also purchase a "quick-pick" lottery ticket. This one-stop shopping facilitates the sale of lottery tickets, and speeds the customer on his way. In addition, the present invention enables the customer to purchase fractional lottery tickets which even further facilitates the sale of lottery tickets. In particular, in cases where a customer makes other merchandise purchases, instead of receiving change, he can request a fractional lottery ticket (equal to the change amount). Accordingly, the present invention provides a consumer with a convenient and efficient system to purchase lottery tickets.

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The term "quick-pick" refers to a lottery ticket in which the lottery numbers are randomly generated for the customer by the lottery system.

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A fractional lottery ticket is a lottery ticket in which

the customer will receive only a portion of the winning prize in accordance with the fractional portion paid for the ticket as compared to the full price of a lottery ticket. For example, if a customer pays 58 cents for a 5 fractional lottery ticket where the full price of a lottery ticket is a dollar, the customer would receive fifty-eight percent of the prize amount if the ticket is a winner. As used herein, the term "lottery tickets", or equivalents thereof includes fractional lottery tickets.

FIG. 1 shows an overall system block diagram of a preferred embodiment of the present invention. In this embodiment, a POS controller 20 is linked to at least one POS terminal 30 via a POS network 40. Four POS terminals 30 are depicted in FIG. 1, but any number of POS terminals 30 can be used. The POS network 40 does not have to be a hard wired network, it can include any of a wide variety of means suitable to transmit and receive data communications, as described below. A lottery ticket transaction can be initiated from any one of the POS terminals 30. The information required to initiate a lottery ticket transaction is passed between the POS terminal 30 and the POS controller 20 via the POS network 40. It is understood that other types of information can also be passed between the POS terminal 30 and the POS controller 20. For example, merchandise prices, coupon discounts, and sales
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event information can also be passed between the POS terminal 30 and the POS controller 20.

As illustrated in FIG 1., the POS controller 20 is also linked to a lottery data processing system 60, discussed in detail below, via a data network 50. The data network 50 can be any one or more of a variety of networks capable of data communications. For example, the data network 50 can be a public switched telephone network 76 (PSTN), an integrated service digital network (ISDN), a packet switched network, a private data communication network, a wireless network or any other suitable network.

The POS terminals 30 and the POS controller 20 depicted in FIG. 1 may be embodied in hardware specifically provided to implement the present invention. Alternatively, they may be implemented using existing cash registers and central in-store servers. In particular, many retail stores have computerized cash registers which are coupled to an in-store transaction processor to receive and transmit merchandise price and other merchandise information. The hardware of these systems may be used for the present invention. To incorporate the present invention changes to the existing in-store transaction processor or store network server may be accomplished in various ways, such as reprogramming the existing in-store transaction processor

or by adding an additional file server.

FIG. 2 is a block diagram of the POS controller 20. The POS controller 20 includes a CPU 21 which performs the processing functions. POS controller 20 also includes a read only memory 22 (ROM) and a random access memory 23 (RAM). The ROM 22 is used to store at least some of the program instructions that are to be executed by the CPU 21, such as portions of the operating system or basic input-output system (BIOS), and the RAM 23 is used for temporary storage of data. A clock circuit 24 provides a clock signal which is required by the CPU 21.

The POS controller 20 also includes a communication port 25 connected to a data network interface 71 and a POS network interface 72. The communication port 25 enables the CPU 21 to communicate with devices external to the POS controller 20. In particular, the communication port 25 permits communication with the POS terminals 30 and also with the lottery data processing system 60. While a modem (not shown) and a dedicated telephone line for establishing communication with the lottery data processing system 60 is preferred, other data network interfaces, including an ISDN terminal to interface with an ISDN network, a radio communications interface, and an Internet interface, may be used as well.

The CPU 21 can also store information to, and read information from, a data storage device 26. The data storage device 26 includes a local lottery ticket database 26a and other databases including a local sales database 26b that a store may conventionally maintain. The local lottery ticket database 26a is described below. In addition, the data storage device 26 includes instructions which can be read by and executed by the CPU 21, thereby enabling the CPU 21 to process transactions. While FIG. 2 depicts separate databases, a single database that incorporates both functions can also be used. Additional databases may be added as needed to store a variety of other information that may be required for other purposes.

FIG. 5 is a pictorial representation depicting the preferred layout and the information stored in the local lottery ticket database 26a. The local lottery ticket database 26a includes a date field F1, a sales receipt number field F2, a number of tickets purchased field F3, a sale amount field F4, and a lottery ticket number field F5. In the case of a fractional lottery ticket, the sale amount field F4 would contain the fractional amount of the lottery ticket purchased by the customer (e.g., sixty-eight cents).

While only three records R1 for three lottery ticket transactions are depicted in FIG. 5, any number of records

may be stored. To conserve storage space on the data storage device 26, records may be transferred to a different storage device or deleted after some predetermined time interval or after a predetermined event (e.g. after the winning lottery number drawing).

FIG. 3 is a block diagram of the preferred POS terminal 30, which can be located at a supermarket, grocery store, liquor store or any other location where consumer transactions are performed. As previously discussed above, there can be any number of POS terminals 30 linked to one POS controller 20. The POS terminal 30 includes a CPU 31, ROM 32, RAM 33, clock circuit 34, communication port 35 and a data storage device 36. The communication port 35 interfaces with the POS network 40 which facilitates communication between the POS terminal 30 and the POS controller 20.

The POS terminal 30 includes an input device 37 to receive input from an operator. Any one of a variety of input devices would be suitable for this purpose, including, for example, depression-actuated buttons, keys, membranes, a mouse, touchscreens, bar code scanners, and the like. The input device 37 may interface directly with the CPU 31, as shown in FIG. 3. Alternatively, an appropriate interface circuit may be placed between the CPU 31 and the input

device 37.

The POS terminal 30 also includes a display device 38 for conveying information to the operator, customer or both. Any one or a variety of display devices would be suitable for this purpose, including, for example a CRT, LCD, LED or thin film transistor panel.

The POS terminal 30 also includes a data storage device 36, in which transaction processor instructions are stored.

These instructions can be read by and executed by the CPU 31, enabling the POS terminal 30 to process a variety of transaction types. By way of example, these transaction types may include "quick-pick" lottery tickets, lottery tickets other than "quick-pick" tickets and merchandise transactions.

The POS terminal 30 further includes a printer 39 for recording the transaction performed by the POS terminal 30.

The printer 39 may interface directly with the CPU 31, as shown in FIG. 3. Alternatively, an appropriate interface circuit may be placed between the CPU 31 and the printer 39.

It will also be understood that other combinations of POS controllers 20 and POS terminals 30 could be employed, depending upon the requirements of a particular

establishment. In particular, the POS terminal 30 may incorporate some of features of the POS controller 20 so that the integrated POS terminal/controller can function as a stand-alone unit. This type of terminal would be
5 advantageous for establishments that only require a single POS terminal.

Shown in FIG. 4 is a block diagram of the lottery data processing system 60. Like the POS controller 20 described above, the lottery data processing system 60 includes a CPU 61, ROM 62, RAM 63, a clock circuit 64, and a communication port 65. The communication port 65 is connected to the data network interface 71. The data network interface 71 depicted is equivalent to the data network interface in FIG. 2. One POS controller 20 is depicted in FIG. 1, but any number of POS controllers 20 can be linked to the lottery data processing system 60 via the data network 50 and the data network interface 71.
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As shown in FIG. 4, the communication port 65 is also connected to an IVRU interface 74. A customer assistance IVRU 75, as shown in FIG. 1, is linked to the lottery data processing system 60 via the IVRU interface 74. The customer assistance IVRU 75 is also connected to the PSTN 76, the public switched telephone network. The customer assistance IVRU 75 allows a caller (not shown) to
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communicate with the lottery data processing system 60 using a telephone (not shown). Voice command prompts guide the caller through various menu options allowing the caller to input and extract data related to a particular lottery ticket transaction. This process is described in greater detail below.

The CPU 61 can also store information to, and read information from the data storage device 68. The data storage device 68 includes a lottery ticket database 68a, a POS controller database 68b, and a winning lottery ticket number database 68c which are described below. In addition, the data storage device 68 includes instructions which can be read by and executed by the CPU 61, thereby enabling the CPU 61 to process lottery transactions. While FIG. 4 depicts separate databases, a single database that incorporates all the functions of databases 68a, 68b and 68c can also be used. Additional databases may be added as needed to store a variety of other information that may be useful in maintaining and administrating a lottery system.

The lottery data processing system 60 also includes a random number generator 66 and a cryptographic processor 67. When requested by the CPU 61, the random number generator 66 generates the random "quick-pick" numbers used for "quick-pick" lottery ticket transactions. The

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cryptographic processor 67 is used to encrypt an authentication code generated by the CPU 61, described in greater detail below. This encrypted authentication code is passed to the CPU 61 which associates it with a particular lottery transaction. The cryptographic processor 67 is also used to decrypt encrypted authentication codes which are passed to it by the CPU 61.

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While the illustrated embodiment depicts the random number generator 66 and the cryptographic processor 67 as separate elements within the lottery data processing system 60, it should be understood that other methods of performing their functions may be used. For example, these functions may be implemented in a computer program stored in the data storage device 68 and executed by the CPU 61.

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FIG. 6 is a pictorial representation of the information stored in the lottery ticket database 68a. The lottery ticket database 68a includes a POS controller ID number field F6, a date field F7, a number of tickets purchased field F8, a sales receipt number field F9, a sale amount field F10, a lottery ticket numbers field F11, and a cryptographic code field F12. In the case of a fractional lottery ticket, the sale amount field F10 would contain the fractional amount of the lottery ticket purchased by the customer (e.g., sixty-eight cents). The POS controller ID

number field F6 is a unique code corresponding to each POS controller 20 that communicates with the lottery data processing system 60. The sales receipt number field F9 stores a serial number related to each receipt generated by the POS terminals 30. The cryptographic code field F12 stores the encrypted authentication code, as discussed in detail below.

While record R2 for one POS controller with ID number 23456 is depicted in FIG. 6, any number of records may be stored. As is also the case with the data storage device 26, from time to time records may be transferred to a different storage device or deleted to conserve storage space within the data storage device 68. The winning lottery ticket number database 68c is of the other databases that the lottery data processing system conventionally maintains.

FIG. 7 is a pictorial representation depicting the information stored in the POS controller database 68b. The POS controller database 68b includes a POS controller ID number field F13, a POS controller name field F14, a POS controller location field F15, and a telephone number field F16. The POS controller name field F14 stores the name of the store or establishment where the POS controller 20 is located. The POS controller location field F15 stores the address of where the POS controller 20 is located. The

telephone number field F16 stores the telephone number associated with each POS controller 20. A record R3 for one POS controller location is depicted in FIG. 7, but any number of records may be stored.

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It should be understood that some fields within the databases discussed above would contain the same corresponding information (e.g. POS controller ID number field F6 in the lottery ticket database 68A corresponds to field F13 in the POS controller database 68B).

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FIG. 8 is a flow chart depicting an exemplary lottery ticket transaction process performed at the POS terminal 30 from the customer's point of view. The process starts when a customer indicates to the POS terminal operator that he or she wishes to purchase one or more "quick-pick" lottery tickets in step S1. Of course, the "quick-pick" lottery tickets can be either full or fractional lottery tickets. The customer may make this decision to buy lottery tickets as a stand-alone transaction or while purchasing other merchandise, such as milk or bread. In step S2, the POS terminal operator initiates a lottery transaction by actuating a pre-programmed designation on the input device 37 associated with the POS terminal 30. The customer is then prompted by the POS operator for the number of "quick-pick" lottery tickets desired in step S3.

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The number of "quick-pick" lottery tickets may also include fractional lottery tickets. This is convenient for customers who do not want to receive a handful of coins as change from a transaction. For example, a customer due sixty-eight cents in change, from a merchandise purchase could elect to buy a lottery ticket for sixty-eight cents which is worth 68% of a \$1 ticket and which pays-out sixty-eight percent of the \$1 payout. Alternatively, the customer could buy a 34% value of a \$2 ticket with 68 cents. Along with the fractional value lottery tickets, the customer may or course purchase full value lottery tickets.

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In an alternative embodiment, the customer may also be prompted for additional lottery ticket information, such as the type of lottery game to be played and the particular lottery numbers selected by the customer. For example, a particular lottery system may offer lottery games based on three, four and six number combinations. The customer may also personally select the lottery numbers to be played.

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In step S4, the POS terminal operator enters the number of lottery tickets requested by the customer into the POS terminal 30 via the input device 37. The customer pays for the lottery tickets and any other purchases made at this

time in step S5. In step S6, the POS terminal prints a single receipt containing the lottery ticket information and any other merchandise sales information.

5 Shown in FIG. 9 is an example of a store sales receipt 80 according to the one embodiment of the present invention. The store sales receipt 80 includes non-lottery ticket related merchandise information 81. The bottom portion contains lottery ticket information including a plurality of lottery numbers 82, a store ID number 83, a receipt number 84, a date 85, a time 86, a price 89, a lottery telephone number 87, and an encrypted authentication code 88. In the case of a fractional lottery ticket, the store sales receipt 80 would also include an indication of the fraction of the full price lottery ticket purchased (e.g., as shown in FIG. 9, \$0.68 was paid for ticket 4).

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25 FIG. 10 is a flow chart of an exemplary operation of the POS controller 20. The steps of the process shown in FIG. 10 may be implemented in a computer program that may be installed at the POS controller 20 from a computer readable medium and then stored therein in one or more of the ROM 22, the RAM 23 and the data storage device 26 (shown in FIG. 2). The POS controller 20 receives in step S7 a lottery ticket transaction request which includes, in this example, the number of "quick-pick" lottery tickets

requested by the customer from the POS terminal 30. The POS controller 20 temporarily stores this information in RAM 23, while it establishes a real-time communication link with the lottery data processing system 60 via the data network 50.

While one lottery data processing system 60 is depicted in FIG. 1, additional lottery data processing systems may be available as secondary or back-up lottery data processing systems. Accordingly, if the POS controller 20 fails to establish communication with the primary lottery data processing system, communication attempts would be made to a secondary lottery data processing system.

Once the real-time communication link is established, the POS controller 20 in step S8 transmits the number of "quick-pick" lottery tickets requested to the lottery data processing system 60. The POS controller 20 also transmits its POS controller identification number (e.g. F1 in FIG. 7). In step S9, the POS controller 20 receives one or more groups of lottery numbers (corresponding to the number of lottery tickets requested) and an associated encrypted authentication code from the lottery data processing system 60. A new record (e.g. R1 in FIG. 5) is created in the local lottery ticket database (26a in FIG. 2) in step S10. In step S11, the POS controller 20 stores in the newly

created record the date, receipt number, time, and lottery numbers received from the lottery data processing system (as shown in FIG. 5, F1-F5). The POS controller 20 then transmits the lottery ticket information (i.e. the lottery numbers and the encrypted authentication code) to the POS terminal 30 that initiated the lottery transaction request in step S12.

Each of the steps S7-S12 described above is executed by the CPU 21 which is executing computer program instructions stored in the data storage device 26. The communication with the POS terminal 30 takes place via the communication port 25 and the POS network interface 72. The communication with the lottery data processing system 60 takes place via the communication port 25 and the data network interface 71.

In an alternative embodiment, the POS controller 20 may also handle non-"quick-pick" lottery ticket transactions. Customer-selected lottery numbers would be received from the customer via mark-sense slips or coded chits at the POS terminal 30 and sent to the lottery data processing system 60 for processing, as described below.

FIG. 11 is a flow chart of the operation of the lottery data processing system 60. The steps of this process may

be stored on a computer readable medium which in this case would be the data storage device 68 (shown in FIG. 4). Upon receiving the lottery ticket transaction request and the POS controller identification number from the POS controller 20, the lottery data processing system 60 in step S13 accesses the POS controller database 68b (shown in FIGS. 4 and 7). The lottery data processing system 60 searches the POS controller database 68b and authenticates the POS controller identification number, as shown in step S14. In step S15, the lottery ticket database 68a (shown in FIGS. 4 and 6) is accessed and a new lottery transaction entry is added in the appropriate POS controller record (e.g. R2 in FIG. 6).

In step S16, the lottery data processing system 60 generates one or more groups of random "quick-pick" lottery numbers using the random number generator 66 (shown in FIG. 4). These random "quick-pick" lottery numbers are used for the quick-pick lottery tickets. The lottery transaction entry added in step S15 is then updated in step S16 by storing these random "quick-pick" lottery numbers in the designated field of the record.

The lottery data processing system 60 also generates an authentication code based on the variables of the particular lottery transaction in step S17. This

authentication code is a numeric string including all the data of one record in the lottery ticket database 68a. An example of such a code corresponding to the first entry shown in FIG. 6, R2, is as follows:

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23456/011597004/3343004/011020112131

In this example, 23456 represents the POS controller ID number; 011597 represents the date; 004 represents the number of tickets purchased; 3343 represents the sales receipt number; 004 represents the sales amount; and 011020112131 represents the lottery ticket numbers.

While the use of an encrypted authentication code is the preferred embodiment, it should also be understood that the store sales receipt number along with the date for each transaction may be used instead. In this situation, the sales receipt number and the date would be used as a pointer to the lottery ticket database 68a. This pointer would be used to extract and verify lottery ticket information as required.

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In step S18, using the cryptographic processor 67 (shown in FIG. 4), the authentication code is encrypted to produce a unique numeric code. The lottery transaction entry added in step S15 is then updated again by storing the encrypted

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authentication code in the appropriate field of the record (see FIG. 6). The use of cryptographic processors and encryption algorithms are well known to those skilled in the art of cryptography. For reference, one of ordinary skill in the art may refer to Bruce Schneier, *Applied Cryptography, Protocols, Algorithms and Source Code Inc.*, (2nd Edition, John Wiley & Sons, Inc., 1996).

The lottery data processing system 60 then transmits the lottery ticket numbers and the encrypted authentication code to the POS controller 20 initiating the lottery ticket transaction in step S19.

This authentication code provides an added level of security and protection for the purchase of the lottery ticket. Should the database within the lottery data processing system 60 be corrupted, all the information printed on the store receipt lottery ticket can still be verified by any other device capable of decrypting the authentication code.

Each of the steps S13-S19 described above is executed by the CPU 61, which carries out these steps by executing computer program instructions stored in the data storage device 68. The communication with the POS controller 20 takes place via the communication port 65 and the data

network interface 71.

In an alternative embodiment, additional information may be transmitted from the POS controller 20 to the lottery data processing system 60. This could include, as described above, customer-selected lottery numbers instead of the random "quick-pick" lottery numbers generated by the lottery data processing system 60. In this situation, the lottery data processing system 60 would store the customer-selected lottery numbers in the lottery ticket database 68a. An encrypted authentication code would be generated accordingly based on the customer-selected lottery numbers. The lottery data processing system 60 would then send the encrypted authentication code and authorization to complete the lottery transaction to the POS controller 20.

FIG. 12 is a flow chart depicting the telephone authentication process. The process starts when a customer dials the telephone number 87 printed on the sales receipt 80, as shown in FIG. 9, in step S20. By dialing the telephone number 87, the customer is connected to the customer assistance IVRU 75, as shown in FIG. 1. This unit, via pre-recorded voice messages, prompts the customer to enter the encrypted authentication code 88 printed on the sales receipt 80 using the keys on the telephone in step S21. In step S22, the customer assistance IVRU 75

communicates this information to the lottery data processing system 60 via the IVRU interface 74, shown in FIG. 4.

5 In step S23, the lottery data processing system 60 searches the cryptographic code field F12 in the lottery ticket database 68a to find an entry that matches the information provided from the IVRU 75. If no match is found, the lottery data processing system 60 communicates to the IVRU 75 that the encrypted authentication code provided by the customer is not valid. The IVRU 75 then prompts the customer to re-enter the encrypted authentication code. After a predetermined number of failed attempts to correctly enter a valid code, the call is terminated, as shown in step S24.

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25 If a matching entry is found, the lottery data processing system 60 decrypts the encrypted authentication code. The decrypted information is then communicated to the customer assistance IVRU 75 in step S25. Based on this information, the customer assistance IVRU 75 transmits a voice message to the customer providing all the decrypted information (i.e. lottery ticket number, time and date of purchase, etc.). The customer assistance IVRU 75 creates the voice message by combining pre-recorded voice messages stored therein.

A winning lottery ticket may be redeemed at one of the POS terminals 30 or at any conventional lottery terminal. To redeem the winning lottery ticket at one of the POS terminals 30, the POS terminal operator initiates a lottery ticket verification process by actuating a pre-programmed input designator via input device 37 associated with the POS terminal 30. The POS operator then enters the encrypted authentication code printed on the lottery ticket into the POS terminal 30 via the input device 37. This information is transmitted to the lottery data processing system 60 via the POS controller 20. The lottery data processing system 60 decrypts this information and accesses the lottery ticket database 68a and the winning lottery ticket number database 68b. The lottery data processing system 60 then determines whether the lottery ticket is a winning lottery ticket based on the information contained in the respective databases.

This determination (along with other information as needed) is then communicated back to the POS terminal 30 via the POS controller 20. Other types of information that may be included in this communication are, for example, the winning prize amount, the fractional prize amount, and whether or not there was a jackpot winning ticket.

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In an alternative embodiment, the random "quick-pick" lottery numbers used for a lottery ticket transaction may be generated by the POS controller 20. These lottery numbers would then be transmitted to the lottery data processing system 60 as described above.

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There are thus provided new and improved systems and methods for selling lottery tickets at point-of-sale locations in stores. The invention uses the same equipment provided for processing conventional store sales of merchandise and/or services to process lottery ticket sales.

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The dual utility of the sales equipment makes the invention cost-effective for merchants. The systems and methods provided permit speedy and efficient purchasing of lottery tickets while making routine purchases of other goods, thus encouraging impulse purchasing of lottery tickets without delaying the regular flow of the point-of-sale checkout line. Further, the invention enables the quick and efficient sale of fractional lottery tickets with what would otherwise be customer change, again encouraging impulse purchases, thereby increasing the market for lottery tickets.

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The present invention further provides systems and methods

whereby an easy to print, easy to read, sales receipt is printed containing both the sales of goods/services and lottery ticket information. The ticket includes authenticating information, including at least one authenticating code and a customer service telephone number, which the customer can use to verify his lottery numbers with the lottery authority.

While the present invention has been described above in terms of specific embodiments, it is to be understood that the invention is not intended to be confined or limited to the embodiments disclosed herein. On the contrary, the present invention is intended to cover all methods, structures and modifications thereof included within the spirit and scope of the appended claims.

WHAT IS CLAIMED IS:

1. A system comprising:

a lottery data processing system;

5 a controller including a storage device storing merchandise information, said controller adapted to receive lottery information from said lottery data processing system;

10 at least one POS terminal connected to said controller, for performing merchandise transactions and lottery transactions in accordance with the received lottery information; and

15 said POS terminal including a recorder for recording on a recording medium the merchandise and lottery information.

20 2. The system according to Claim 1, wherein said controller communicates in substantially real-time with said lottery data processing system.

25 3. The system according to Claim 1, wherein the storage device stores lottery information received from said lottery data processing system that includes randomly selected lottery ticket numbers.

4. The system according to Claim 2, wherein said POS

terminal is adapted for input of customer-selected lottery numbers, said controller is adapted to transmit the customer-selected lottery numbers to said lottery data processing system, and said controller is adapted to receive from said lottery data processing system an encrypted authentication code and authorization to perform the lottery transaction.

5. The system according to Claim 1, wherein said controller is a store network server.

10 6. A method for performing a lottery transaction, comprising the steps of:

15 initiating the lottery transaction at a POS terminal adapted to perform both lottery transactions and merchandise transactions;

20 communicating from the POS terminal to a POS controller, operatively connected to said POS terminal, that the lottery transaction has been initiated;

25 establishing communication between the POS controller and a lottery data processing system adapted to communicate with the POS controller;

requesting lottery information be transmitted from the lottery data processing system to the POS controller;

generating the lottery information in the lottery data processing system;

transmitting the lottery information from the lottery data processing system to the POS terminal via the POS controller; and

5 outputting the lottery information on a recording medium by the POS terminal.

10 7. The method according to Claim 6, wherein said generating step comprises generating lottery information that includes randomly selected lottery numbers and an encrypted authentication code.

15 8. The method according to Claim 6, wherein said outputting step comprises outputting a recording medium comprising a sales receipt having information relating to the lottery transaction and a merchandise transaction.

20 9. A method according to Claim 6, further comprising the steps of:

inputting customer-selected lottery numbers to the POS terminal;

sending the customer-selected lottery numbers to the lottery data processing system; and

25 wherein said generating step comprises generating lottery information that includes an authorization to complete the lottery transaction using the customer-selected lottery numbers and an encrypted

authentication code related to the customer-selected lottery numbers.

10. A method according to Claim 6 further comprising the
5 steps of:

inputting into the POS terminal an indication of a percentage of a full price lottery ticket;

sending the indication to the lottery data processing system; and

10 wherein said generating step comprises generating lottery information that includes an authorization for a fractional lottery ticket transaction.

15 11. A lottery data processing system comprising:

a lottery controller including a CPU and a memory operatively connected to said CPU;

20 said lottery controller adapted to communicate with at least one remote controller that includes a storage device for storing merchandise information, said lottery controller adapted to receive a request for lottery information from said remote controller and to transmit, in response, the lottery information to said remote controller; and

25 said memory in said lottery controller containing a program, adapted to be executed by said CPU, for processing the request for the lottery information, generating the

requested lottery information, and maintaining a database within said memory to store the requested lottery information.

5 12. The system according to Claim 11, wherein said program in said memory is adapted to generate lottery information that includes at least one group of randomly selected lottery numbers and an encrypted authentication code for transmittal to said remote controller.

10 13. The system according to Claim 11, wherein said lottery controller is adapted to receive from said remote controller at least one group of customer-selected lottery numbers.

15 14. The system according to Claim 13, wherein said program in said memory is adapted to generate lottery information that includes an authorization to complete a lottery transaction related to the request for the lottery information and an encrypted authentication code related to the group of customer-selected lottery numbers for transmittal to said remote controller.

20 25 15. The system according to Claim 12, further comprising:
 an IVRU operatively connected to said lottery controller and to a PSTN;

wherein said lottery controller is adapted to receive an alphanumeric code from said PSTN via said IVRU; and

5 said program in said memory is further adapted to search said database within said memory to find a stored encrypted authentication code that matches the alphanumeric code, and if a match is found, decrypt the alphanumeric code, and send a first message to said PSTN via said IVRU, otherwise send a second message to said PSTN via said IVRU.

10 16. The system according to Claim 14, further comprising:

an IVRU operatively connected to said lottery network controller and to a PSTN;

wherein said lottery controller is adapted to receive an alphanumeric code from said PSTN via said IVRU; and

15 said program in said memory is further adapted to search said database within said memory to find a stored encrypted authentication code that matches the alphanumeric code, and if a match is found, decrypt the alphanumeric code, and send a first message to said PSTN via said IVRU, otherwise send a second message to said PSTN via said IVRU.

20 25 17. The system according to Claim 15, wherein the first message includes information based on the decrypted alphanumeric code.

18. The system according to Claim 15, wherein the second

message includes an indication that no match was found.

19. The system according to Claim 15, wherein the first message comprises an indication as to whether the alphanumeric code is from a winning lottery ticket.

20. A method for processing a request for lottery information using a lottery controller including a CPU and a memory operatively connected to said CPU, wherein the memory contains a program, adapted to be executed by said CPU, for processing lottery information requests, said method comprising the steps of:

receiving a request for lottery information from a data processing system adapted to perform lottery ticket transactions and merchandise transactions;

generating lottery information based on the request for lottery information;

storing the lottery information in the memory; and

transmitting the lottery information to the data processing system adapted to perform lottery ticket transactions and merchandise transactions.

21. A method for processing a lottery ticket request, comprising the steps of:

receiving a request for at least one lottery ticket;

generating randomly selected numbers to be used for

the lottery ticket;

generating an authentication code comprising the randomly selected numbers;

encrypting the authentication code;

5 storing the randomly selected numbers and the encrypted authentication code in a storage device; and

outputting the randomly selected numbers and the encrypted authentication code.

10 22. A method according to Claim 21, wherein the request in said receiving step is for a fractional lottery ticket.

15 23. Computer executable process steps, stored on a computer readable medium, for processing lottery ticket transactions, comprising:

a step to receive a lottery ticket request;

a step to generate randomly selected lottery numbers;

20 a step to generate an authentication code based upon the randomly selected lottery numbers;

a step to encrypt the authentication code;

a step to store the randomly selected lottery numbers and the encrypted authentication code in a storage device; and

25 a step to output the randomly selected lottery numbers and the encrypted authentication code.

24. Computer executable process steps according to Claim 23, wherein the lottery ticket request in said step to receive is for a fractional lottery ticket.

5 25. A system for performing lottery ticket transactions and merchandise transactions, comprising:

a POS controller including a storage device storing merchandise information and lottery information;

10 said POS controller adapted to communicate with a lottery data processing system;

15 said POS controller further adapted to transmit a request for lottery information to said lottery data processing system and to receive, in response, the requested lottery information from said lottery data processing system;

at least one POS terminal, operatively connected to said POS controller, for performing merchandise transactions and lottery transactions in accordance with the received lottery information; and

20 a recorder connected to said POS terminal for issuing a receipt for the merchandise and lottery transactions, said receipt comprising the lottery information from said lottery data processing system.

25 26. A method for performing lottery ticket transactions and merchandise transactions utilizing a POS terminal

operatively connected to a POS controller including a storage device storing merchandise information, comprising the steps of:

5 initiating at the POS terminal a transaction for a plurality of items to be purchased, including a request to purchase at least one lottery ticket;

inputting to the POS terminal a request for lottery ticket information;

10 transmitting to the POS controller the request for lottery ticket information;

receiving at the POS terminal from the POS controller the requested lottery ticket information; and

recording on a recording medium the lottery ticket information and the merchandise transaction.

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27. A method according to Claim 26, further comprising the step of storing the requested lottery ticket information in the storage device of the POS controller.

28. A data processing system, comprising:

a POS controller including a CPU and a storage device operatively connected to said CPU;

said POS controller adapted to receive from at least one POS terminal, capable of performing lottery transactions and merchandise transactions, a request for lottery information;

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said POS controller further adapted to communicate the request for lottery information to a lottery data processing system that is capable of generating lottery information, and to receive, in response, the requested lottery information; and

said storage device in said POS controller containing a program, adapted to be executed by said CPU, for processing the request for the lottery information from said POS terminal.

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29. A method for processing lottery ticket requests using a POS controller including a CPU and a storage device operatively connected to said CPU and containing a program, adapted to be executed by said CPU, for processing lottery ticket requests, comprising the steps of:

receiving a request for lottery information from a POS terminal performing lottery transactions and merchandise transactions;

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transmitting the request to a lottery data processing system capable of generating lottery information based on the request for lottery information;

receiving the lottery information from the lottery data processing system; and

sending the lottery information to the POS terminal.

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30. A transaction processing device, comprising:

a POS terminal adapted to perform lottery transactions and merchandise transactions;

said POS terminal adapted to communicate with a POS controller;

5 said POS terminal adapted to transmit a request for lottery information to said POS controller and to receive the requested lottery ticket information from said POS controller; and

10 said POS terminal including a recorder for recording on a recording medium the merchandise and lottery transactions.

15 31. A method for performing lottery ticket transactions and merchandise transactions utilizing a POS terminal operatively connected to a POS controller that is adapted to communicate with a lottery data processing system, comprising the steps of:

20 initiating at the POS terminal a transaction for a plurality of items to be purchased, including a request to purchase at least one lottery ticket;

 inputting to the POS terminal a request for lottery information;

 receiving at the POS terminal lottery information including an encrypted authentication code; and

25 recording on a recording medium the lottery information and the merchandise transaction.

5 32. The method according to Claim 31, wherein said inputting step comprises inputting a request for lottery information that includes randomly selected lottery numbers, and said receiving step comprises receiving the randomly selected lottery numbers and the encrypted authentication code.

10 33. The method according to Claim 31, wherein said inputting step comprises requesting that specific customer-selected lottery numbers be used as at least a part of the lottery information being requested.

15 34. The method according to Claim 31, wherein the request in said initiating step is for a fractional lottery ticket.

20 35. The method according to Claim 34, wherein the received lottery information includes an authorization to perform a fractional lottery ticket transaction.

25 36. A method of purchasing a lottery ticket, comprising:
 requesting the purchase of at least one lottery ticket and at least one item of merchandise;
 receiving a recording medium constituting the lottery ticket and containing information concerning the purchase of the item of merchandise.

26 37. A method according to Claim 36, wherein the lottery

ticket requested in said requesting step is a fractional lottery ticket.

38. A method of purchasing a lottery ticket comprising:

5 requesting the purchase of an item of merchandise; tendering an amount of money for the purchase, in excess of the purchase price;

10 directing that the amount of money for the purchase in excess of the purchase price be applied to the purchase of a fractional value lottery ticket; and

receiving a recording medium constituting the fractional value lottery ticket and containing information concerning the purchase of the item of merchandise.

15 39. A method for authenticating a lottery ticket using a lottery central controller including a storage device, comprising the steps of:

20 receiving first information related to the lottery ticket;

determining whether the first information is equivalent to second information stored in the storage device, where the second information relates to a plurality of authorized lottery tickets;

25 if no equivalent is found, outputting a first message indicating that no match was found;

if an equivalent is found, performing a decryption

operation on the first information; and
outputting a second message based on the decryption
operation.

5 40. The method according to Claim 39, wherein the received
first information comprises an encrypted authentication
code.

10 41. The method according to Claim 39, wherein said
receiving step comprises receiving the first information
via an IVRU operatively connected to a PSTN.

15 42. The method according to Claim 39, wherein said
receiving step comprises receiving the first information
from another data processing system.

20 43. The method according to Claim 39, wherein the second
message comprises a report as to whether the lottery ticket
is a winning lottery ticket.

25 44. The method according to Claim 40, wherein the
decryption operation comprises decrypting the encrypted
authentication code, and the second message comprises
information based on the decrypted authentication code.

45. A receipt, comprising a recording medium, recorded
thereon lottery ticket information, merchandise transaction

information and an encrypted authentication code.

46. The receipt according to Claim 45, wherein the lottery ticket information comprises a fractional lottery ticket.

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47. A transaction processing system, comprising:

a POS terminal adapted to perform lottery ticket transactions and merchandise transactions;

an input device associated with said POS terminal for inputting information to said POS terminal related to at least one item to be purchased and an amount of money tendered to pay for the item;

said POS terminal adapted to calculate an amount of change based on the amount of money tendered to pay for the item;

said input device including an actuatable member for causing said POS terminal to perform a lottery ticket transaction by applying the amount of change toward purchase of an amount of lottery tickets equal in value to the calculated amount of change; and

said POS terminal including a recorder for recording on a recording medium the merchandise transaction and the amount of lottery tickets purchased with the calculated amount of change.

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48. The system according to Claim 47, where the amount of

lottery tickets purchased includes a fractional lottery ticket.

ABSTRACT OF THE DISCLOSURE

A system and method for performing integrated lottery ticket and merchandise transactions using a point-of-sale terminal that generates a single sales receipt containing all pertinent lottery ticket and merchandise transaction information. The lottery tickets generated include fractional value and "quick-pick" lottery tickets. A group of point-of-sale terminals are connected to a POS controller which communicates with a lottery data processing system. An encrypted authentication code also printed on the sales receipt allows the lottery player to verify all lottery ticket transaction information, as needed.

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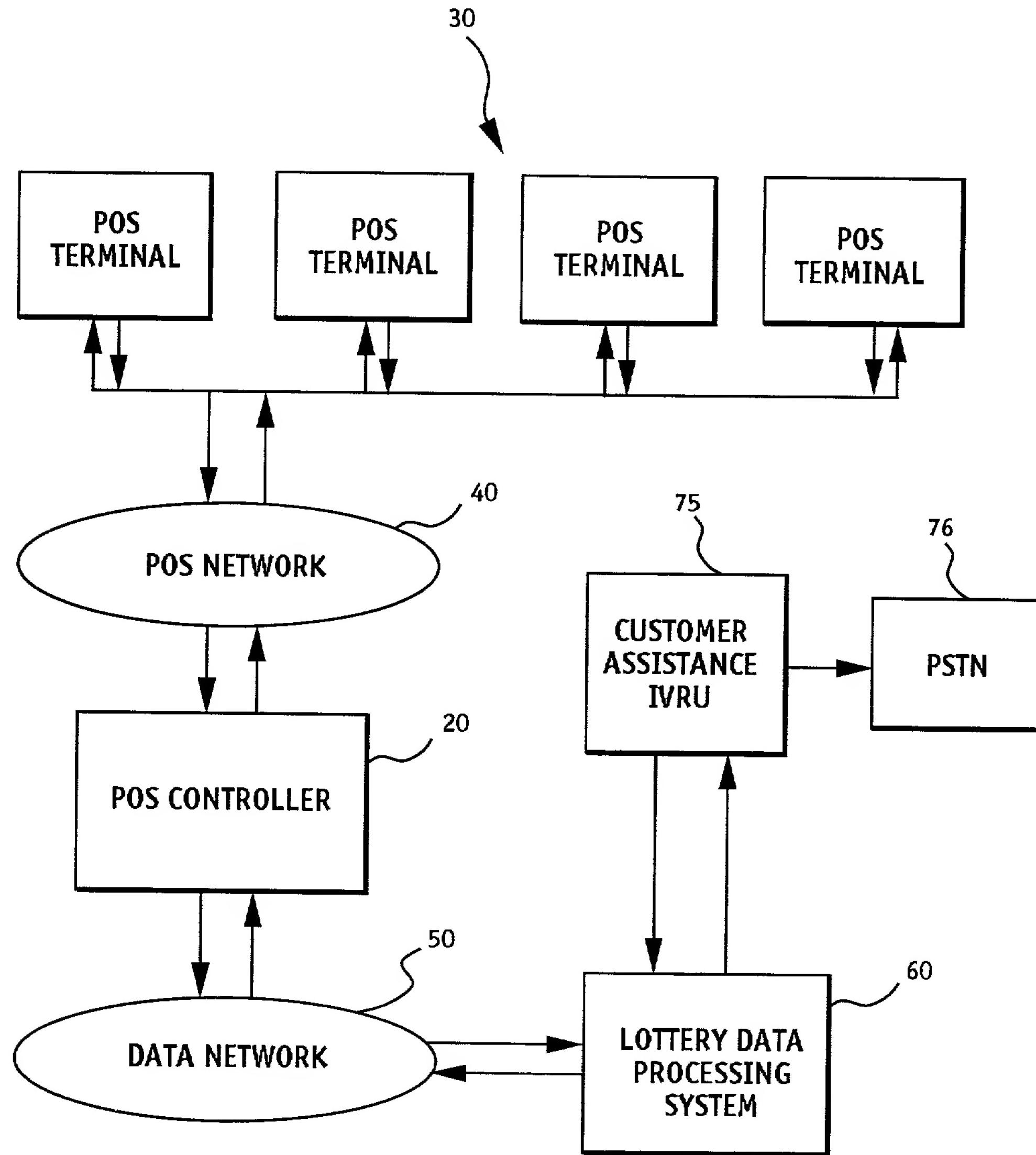


FIG. 1

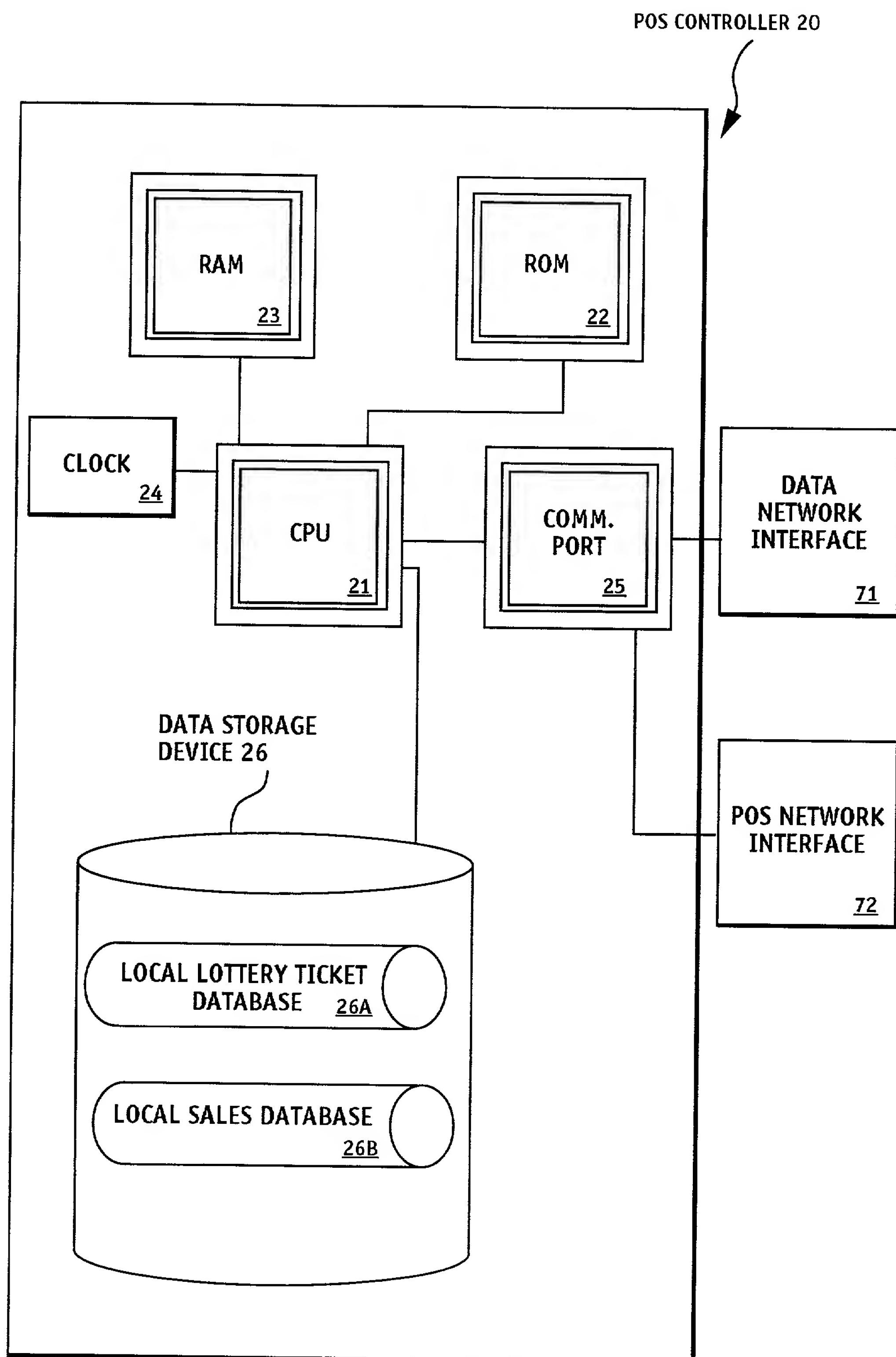


FIG. 2

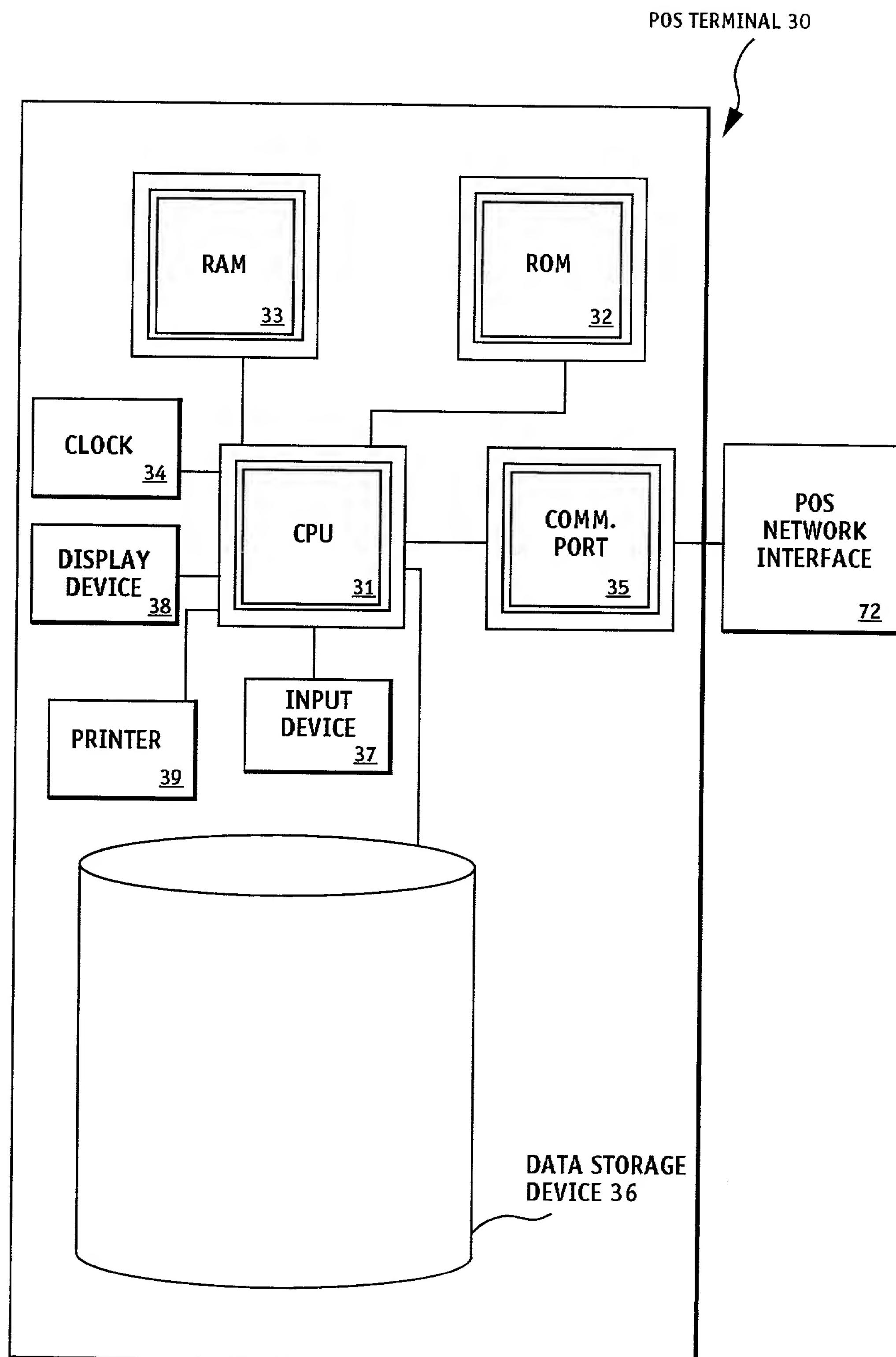


FIG. 3

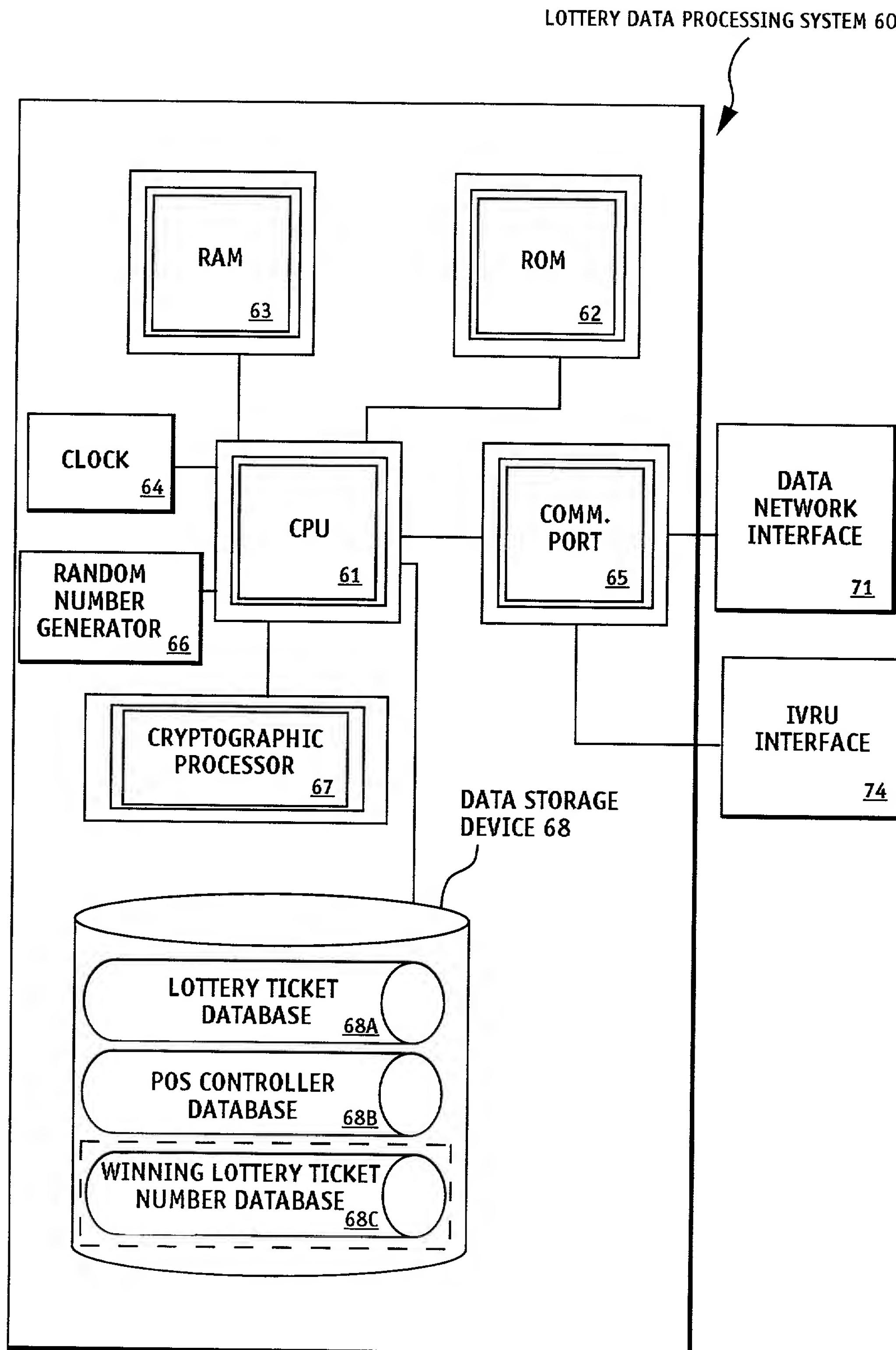


FIG. 4

5/12
WALKER DIGITAL
WD2-97-006

LOCAL LOTTERY TICKET DATABASE 26A

DATE <u>F1</u>	SALES RECEIPT NUMBER <u>F2</u>	NUMBER OF TICKETS PURCHASED <u>F3</u>	SALE AMOUNT <u>F4</u>	LOTTERY TICKET NUMBERS <u>F5</u>
1/15/97	4532	1	\$1.00	01 12 34....
1/15/97	4533	4	\$4.00	02 07 23 01 17 46 11 34 56 22 33 44
1/15/97	4534	1	\$0.68	33 17 92

FIG. 5

6/12
WALKER DIGITAL
WD2-97-006

LOTTERY TICKET DATABASE 68A

POS CONTROLLER ID # 33456		POS CONTROLLER ID # 43456	
R2			
CONTROLLER ID NUMBER	DATE <u>F6</u>	NUMBER OF TICKETS PURCHASED <u>F7</u>	SALES RECEIPT NUMBER <u>F8</u>
23456	1/15/97	4	3343
23456	1/15/97	1	4533
23456	1/15/97	1	4534

FIG. 6

7/12
WALKER DIGITAL
WD2-97-006

POS CONTROLLER DATABASE 68B

POS CONTROLLER ID NUMBER	POS CONTROLLER NAME	POS CONTROLLER LOCATION	TELEPHONE NUMBER
<u>F13</u> 23456	<u>F14</u> MINI MART AND GROCERY	<u>F15</u> STAMFORD, CT 06905	<u>F16</u> (203) 555- 1234

R3

FIG. 7

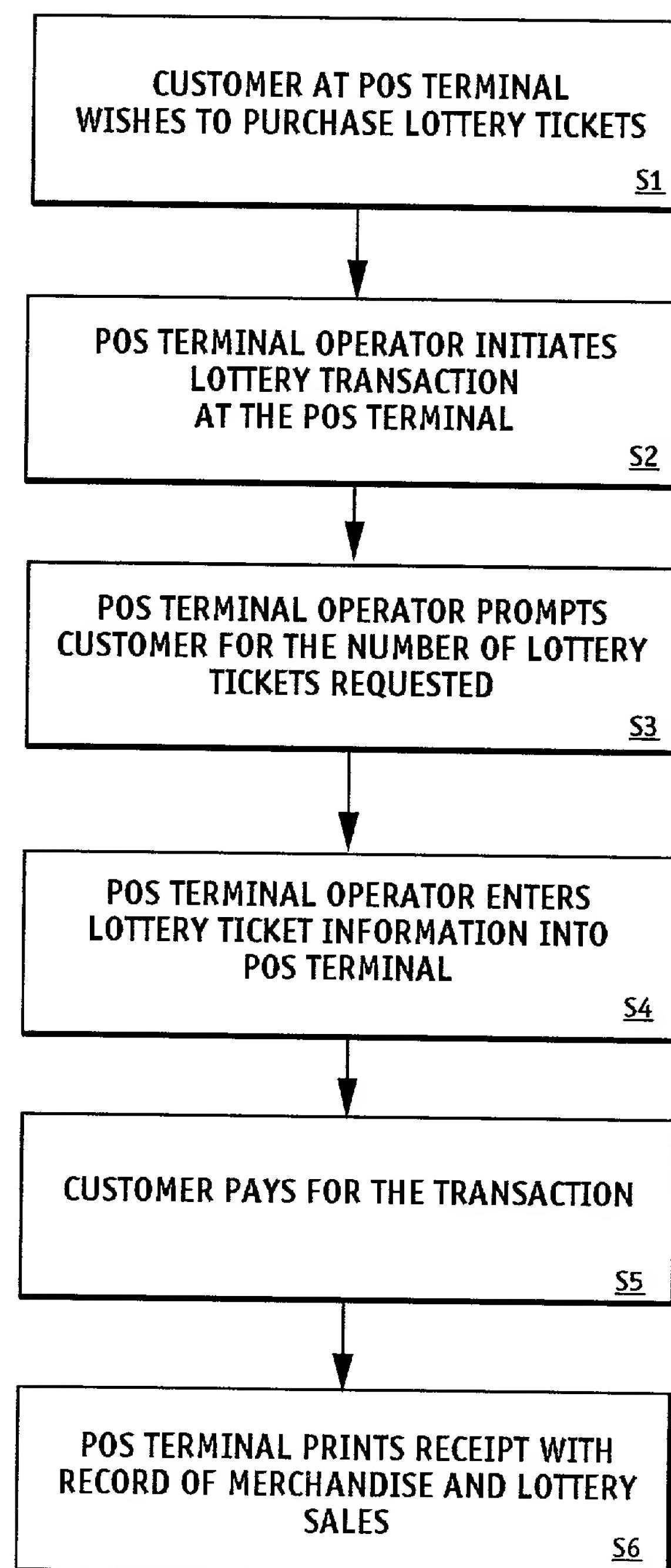


FIG. 8

9/12
WALKER DIGITAL
WD2-97-006

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MINI-MART GROCERY STORE

FRUIT	2.50
BEVERAGES	15.00
BREAD	4.50
VEGETABLES	1.00
DAIRY	3.50
CEREAL	12.50
STEAK	35.00
VEAL	25.00
LOTTERY TICKETS	3.68
TAX	5.32
<hr/>	
TOTAL	\$108.00

CONNECTICUT
L O T T E R Y

PRICE

TICKET 1	\$1	01	10	20	30	36	39
TICKET 2	\$1	11	21	24	25	32	33
TICKET 3	\$1	07	09	11	13	15	17
TICKET 4	\$0.68	08	13	15	16	27	41

81

82

83 ~~~~ STORE ID #: 23456
84 ~~~~ RECEIPT #: 3343
85 ~~~~ DATE: 1/15/97
86 ~~~~ TIME: 4:20 PM
89 ~~~~ PRICE: \$3.68

87

CALL 1-800 XXX-XXXX FOR INFORMATION
REGARDING RESULTS, QUESTIONS, AND
AUTHENTICATION

88

***** 5765685699 *****
***** 4040545886 *****

AUTHENTICATION CODE

FIG. 9

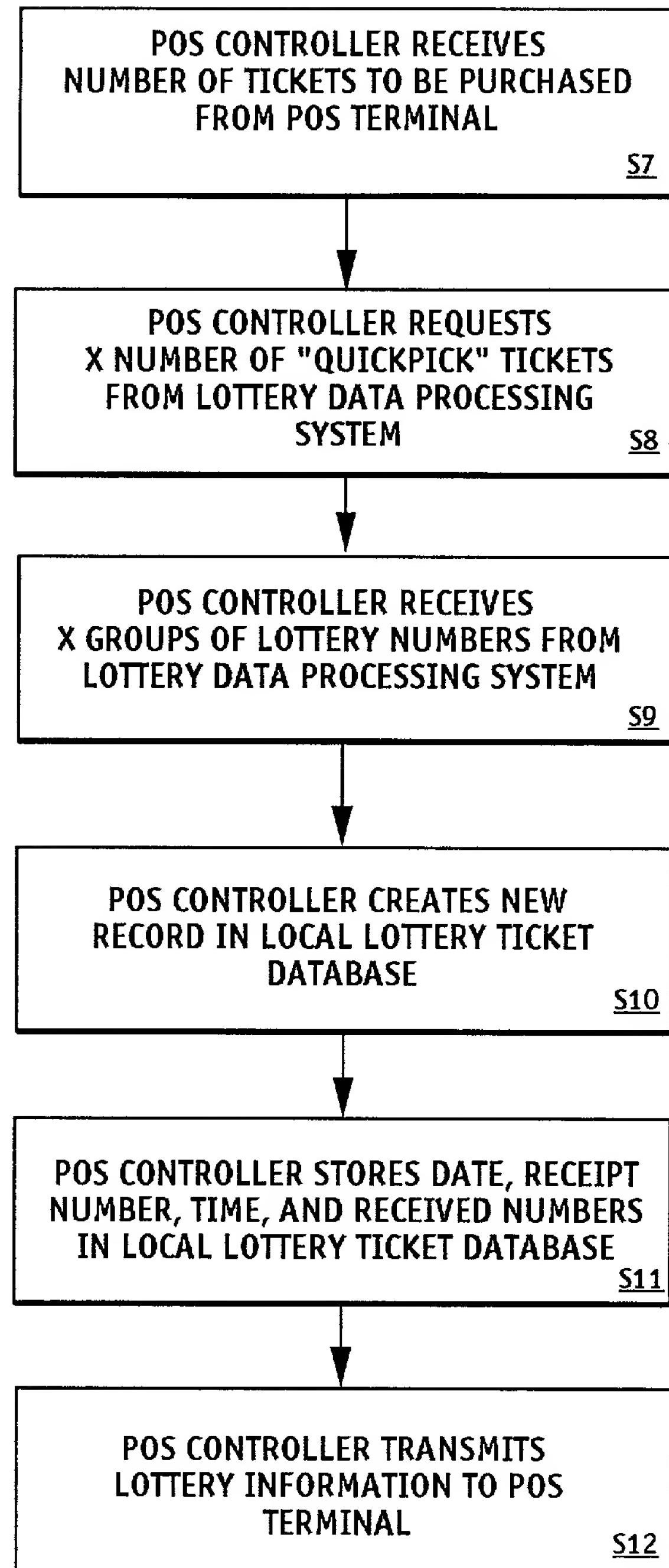


FIG. 10

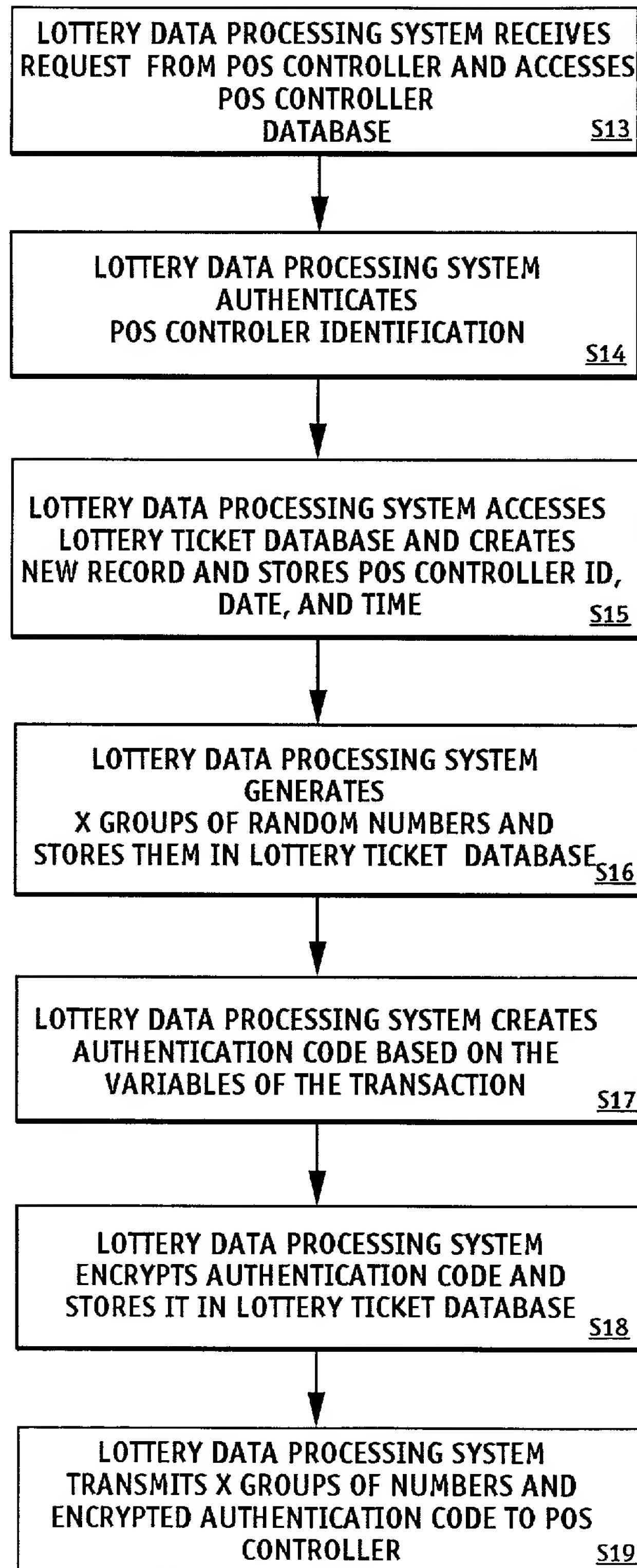


FIG. 11

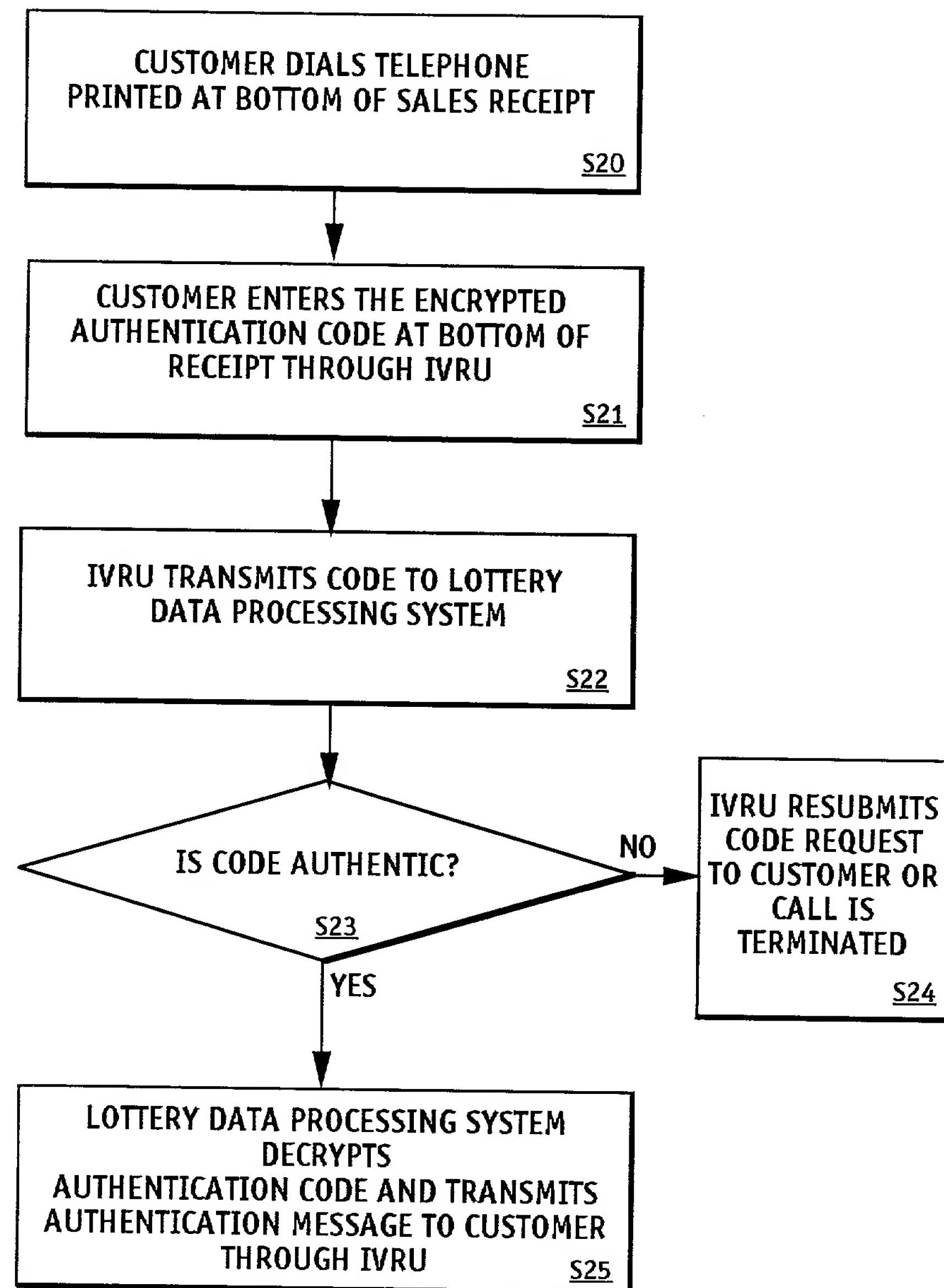


FIG. 12

**COMBINED DECLARATION AND POWER OF ATTORNEY
FOR PATENT APPLICATION**

(Page 1)

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name;

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled SYSTEM AND METHOD FOR PERFORMING LOTTERY TICKET TRANSACTIONS UTILIZING POINT-OF-SALE TERMINALS

,
the specification of which is attached hereto was filed on _____
as United States Application No. or PCT International Application No. _____
and was amended on _____ (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR §1.56.

I hereby appoint the following attorneys to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: Joseph M. Fitzpatrick (Registration No. 17,398), Lawrence F. Scinto (Registration No. 18,973), William J. Brunet (Registration No. 20,452), Robert L. Baechtold (Registration No. 20,860), John A. O'Brien (Registration No. 24,367), John A. Krause (Registration No. 24,613), Henry J. Renk (Registration No. 25,499), Peter Saxon (Registration No. 24,947), Anthony M. Zupcic (Registration No. 27,276), Charles P. Baker (Registration No. 26,702), Stevan J. Bosses (Registration No. 22,291), Edward E. Vassallo (Registration No. 29,117), Ronald A. Clayton (Registration No. 26,718), Lawrence A. Stahl (Registration No. 30,110), Laura A. Bauer (Registration No. 29,767), Leonard P. Diana (Registration No. 29,296), David M. Quinlan (Registration No. 26,641), Nicholas N. Kallas (Registration No. 31,530), William M. Wannisky (Registration No. 28,373), Lawrence S. Perry (Registration No. 31,865), Robert H. Fischer (Registration No. 30,051), Christopher Philip Wrist (Registration No. 32,078), Gary M. Jacobs (Registration No. 28,861), Michael K. O'Neill (Registration No. 32,622), Bruce C. Haas (Registration No. 32,734), Scott K. Reed (Registration No. 32,433), Scott D. Malpede (Registration No. 32,533), Fredrick M. Zullow (Registration No. 32,452), Richard P. Bauer (Registration No. 31,588), Warren E. Olsen (Registration No. 27,290), Abigail F. Cousins (Registration No. 29,292), Steven E. Warner (Registration No. 33,326), Thomas J. O'Connell (Registration No. 33,202), Penina Wollman (Registration No. 30,816), David L. Schaeffer (Registration No. 32,716), Jack S. Cubert (Registration No. 24,245), Mark A. Williamson (Registration No. 33,628), Jean K. Dudek (Registration No. 30,938), Raymond R. Mandra (Registration No. 34,382), Dominick A. Conde (Registration No. 33,856), Pasquale A. Razzano (Reg. No. 25,512), John W. Behringer (Registration No. 23,086), Robert C. Kline (Registration No. 17,739), Mark J. Itri (Registration No. 36,171), William C. Hwang (Registration No. 36,169), Michael P. Sandonato (Registration No. 35,345), Jack M. Arnold (Registration No. 25,823), John D. Carlin (Registration No. 37,292), Daniel S. Glueck (Registration No. 37,838), Victor J. Geraci (Registration No. 38,157), Joseph W. Ragusa (Registration No. 38,586), Brian L. Klock (Registration No. 36,570), Anne M. Maher (Registration No. 38,231), William J. Zak, Jr. (Registration No. 38,668), Thomas D. Pease (Registration No. 35,317), Bruce M. Wexler (Registration No. 35,409), Robert S. Mayer (Registration No. 38,544), Errol B. Taylor (Registration No. 39,853), Matthew J. Golden (Registration No. 35,161), Mark J. Rosen (Registration No. 39,822), Sean W. O'Brien (Registration No. 37,689), Thomas M. Palisi (Registration No. 36,629), Dolores A. Moro-Grossman (Registration No. 33,972), T. Thomas Gellenthien (Registration No. 39,683), Douglas Sharrott (Registration No. 39,832), Gordon F. Sieckmann (Registration No. 28,667), and Jay H. Anderson (Registration No. 38,371), Jeffrey L. Brandt (Registration No. 31,490).

Address all correspondence to:

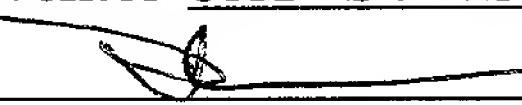
FITZPATRICK, CELLA, HARPER & SCINTO
277 Park Avenue
New York, N.Y. 10172
Telephone No. (212) 758-2400

**COMBINED DECLARATION AND POWER OF ATTORNEY
FOR PATENT APPLICATION**

(Page 2)

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Full Name of Sole or First Inventor JAY S. WALKER

Inventor's signature 

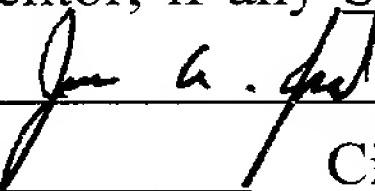
Date 3/18/97 Citizen/Subject of United States

Residence 124 Spectacle Lane

Ridgefield, Connecticut 06877

Post Office Address _____

Full Name of Third Joint Inventor, if any JAMES A. JORASCH

Second Inventor's signature 

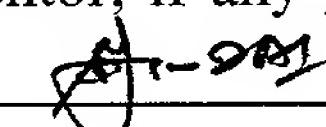
Date 3/18/97 Citizen/Subject of United States

Residence 25 Forest Street, Apt. 5G

Stamford, Connecticut 06901

Post Office Address _____

Full Name of Fifth Joint Inventor, if any SANJAY K. JINDAL

Third Inventor's signature 

Date 3/18/97 Citizen/Subject of India

Residence 52 Village Walk

Wilton, Connecticut 06897

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Applicant or Patentee: JAY S. WALKER ET AL.

Application or Patent No.: _____

Filed or Issued: herewith

For: SYSTEM AND METHOD FOR PERFORMING LOTTERY TICKET TRANSACTIONS UTILIZING POINT-OF-SALE TERMINALS

Attorney's

Docket No.: 2173.5

65431 U.S. PTO
08/822709

03/21/97

VERIFIED STATEMENT (DECLARATION) CLAIMING SMALL ENTITY STATUS (37 CFR 1.9(f) AND 1.27(c)) - SMALL BUSINESS CONCERN

I hereby declare that I am

- the owner of the small business concern identified below:
- an official of a corporate general partner of the small business concern empowered to act on behalf of the concern identified below:

NAME OF CONCERN WALKER ASSET MANAGEMENT, LIMITED PARTNERSHIP

ADDRESS OF Four High Ridge Park

Stamford, Connecticut 06905

I hereby declare that the above-identified small business concern qualifies as a small business concern as defined in 13 CFR 121.3-18, and reproduced in 37 CFR 1.9(d), for purposes of paying reduced fees under section 41(a) and (b) of Title 35, United States Code, in that the number of employees of the concern, including those of its affiliates, does not exceed 500 persons. For purposes of this statement, (1) the number of employees of the business concern is the average over the previous fiscal year of the concern of the persons employed on a full-time, part-time or temporary basis during each of the pay periods of the fiscal year, and (2) concerns are affiliates of each other when either, directly or indirectly, one concern controls or has the power to control the other, or a third party controls or has the power to control both.

I hereby declare that rights under contract or law have been conveyed to and remain with the small business concern identified above with regard to the invention, entitled SYSTEM AND METHOD FOR PERFORMING LOTTERY TICKET TRANSACTIONS UTILIZING POINT-OF-SALE TERMINALS

by inventors JAY S. WALKER, JAMES A. JORASCH, SANJAY K. JINDAL described

- the specification filed herewith
- application no. _____, filed _____
- patent no. _____, issued _____.

If the rights held by the above identified small business concern are not exclusive, each individual, concern or organization having rights to the invention is listed below* and no rights to the invention are held by any person, other than the inventor, who could not qualify as a small business concern under 37 CFR 1.9(d) or a nonprofit organization under 37 CFR 1.9(e). *NOTE: Separate verified statements are required from each named person, concern or organization having rights to the invention averring to their status as small entities. (37 CFR 1.27)

NAME _____

ADDRESS _____

INDIVIDUAL SMALL BUSINESS CONCERN NONPROFIT ORGANIZATION

NAME _____

ADDRESS _____

INDIVIDUAL SMALL BUSINESS CONCERN NONPROFIT ORGANIZATION

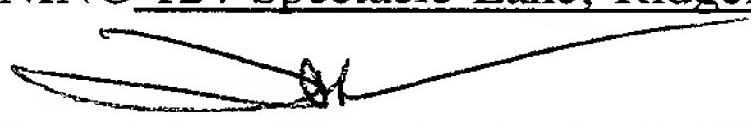
I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b))

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

NAME OF PERSON SIGNING JAY S. WALKER

TITLE OF PERSON OTHER THAN OWNER President of Walker Digital Corp., as General Partner of Walker Asset Management, Limited Partnership

ADDRESS OF PERSON SIGNING 124 Spectacle Lane, Ridgefield, Connecticut 06877

SIGNATURE 

DATE 3/18/97

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